**Climatic Inputs required in SWMM model.**

* Rain gauge location (Latitude and Longitude)

**Response:**

We need more information on the exact rain gauge location of choice.

* Rainfall data at 15 minutes time intervals
  + - intensity of rainfall (mm/hour) or
    - Depth (mm) or
    - cumulative depth of rainfall (mm)

**Response:**

Multiple sources of precipitation

1. IMERG Satellite Precipitation Dataset (30-min, [IPE](https://cartoviews.users.earthengine.app/view/ipe))
2. NOAA [Rainfall](https://www.ncei.noaa.gov/cdo-web/search) data & NOAA [Stations](https://www.ncei.noaa.gov/cdo-web/datatools/selectlocation)
3. ***NOAA*** [***App***](https://www.ncei.noaa.gov/maps/hourly/?layers=01)
4. NWS [Rainfall](https://water.weather.gov/precip/) data

* Climate data at daily time steps
* Temperature (°C)
* Evaporation (mm/day)
* wind speed (km/hour)

**Response:**

Known data sources.

1. NOAA-NLDAS hourly Forcings through the [RFR](https://cartoviews.users.earthengine.app/view/rapid-forcings-retrieval) (temperature, potential evaporation, wind speed (vertical and horizontal).
2. [PRISM](https://www.prism.oregonstate.edu/) daily data (precipitation, temperature, dew point, vapor pressure)
3. Wind [NREL](https://www.nrel.gov/gis/wind.html) data & ***Wind*** [***NREL***](https://nsrdb.nrel.gov/about/what-is-the-nsrdb) ***updated database (MERRA-2).***

* Flood prone areas

Rainfall

A screenshot of a search box

Description automatically generated